more easily. Patients with vCJD the bovine-human species barrier is identical to that responsible for intective prion protein might cross possible that the resulting (genetic) CJD in humans, it is the commonest type of familial public. Because the point mutation cattle for PRNP mutations, which dentified in the Alabama animals additional data on the risk to the is now available, could provide to travel to Cuba on the condition

to advise this fledgling group Madison, New Jersey 07940, USA

could no longer pay for our visits. support Cuba financially and they until the Soviet Union ceased to that we spent no American dollars or Scientists Emeriti, Drew University, Arnold L. Demain Research Institute there. We therefore continued

was no mystery to ldea of a love drug

poetry. But at least one poet, understanding of love is not namely William Shakespeare, claims that the biochemical neuroscience reveals all' (Nature SIR — In his Essay 'Love: oretold the application of drugs **457, 148**; 2009), Larry Young

associated with pair bonding. to manipulate the brain systems In A Midsummer Night's Dream

bud" — variously identified as a England but long known for its spp.) or chaste tree (Vitex agnusspecies of wormwood (Artemisia other substances from "Dian's in the play as Titania falls in love castus, a species not native to Shakespeare also suggests that make or man or woman madly Oberon maintains that topical with the donkey-headed Bottom supplying much of the humour potion proves highly effective, that it sees" (Act 2, Scene 1). The dote Upon the next live creature "love-in-idleness" in the play) "Will wild pansy (Viola tricolor, called applications of the juice of the.

has to focus on answering two questions. First, would prohibiting

esearch on non-human primates the ethical discussion about

disease could occasionally be genetic in origin, indeed, the

many constraints on interaction biotech boom' (Nature 457, 130; SIR — In your Editorial 'Cuba's

2009), you state that "despite

raises the possibility that the

^pathog. 4, e1000156; 2008). Thi: (J. A. Richt and S. M. Hall PLoS calf also carried the mutation Alabama with BSE; her healthy

With human dignity in mind,

different opinions on what is the basic point that we should

night constitute a breach of agree on, regardless of our respect for human dignity. This has its ethical limits. Research can only be a right as long as it is not acting against our

the fact that this freedom, like

lowever, we have to recognize

On the face of it, this looks like

ustification — as a basic right of research' — meaning research and societies claim 'freedom

being free from the need for

every other kind of freedom,

threat to the human dignity of

ARCZOOAT-OOF

No. 25

be basis for debate Human dignity must primate research BMC F11-46, 221 84 Lund, Sweden to all parties in this debate Pathophysiology Unit, Lund Univer

http://tinyurl.com/c62pgf Readers are welcome to comment

be possible to replace animats

a fundamental keynote of

risks to public health raises concerns over Rare BSE mutation

continue to be identified. The fac

that this is happening less often

he controls necessary to prevent should not lead to relaxation of

or morally acceptable". On

necessarily "morally justifiable medical science" is not 2009) by stating that "good in research' (Nature 457, 657 his Correspondence 'It should biomedical-research ethics in SIR — Bill Crum emphasizes

the other hand, many states

numan population. SIR — Atypical forms (known (vCJD) could increase in the unwelcome possibility that varian the United States. This raises the in several European countries (BSE) have recently appeared spongiform encephalopathy Treutzfeldt-Jakob disease is well as in Japan, Canada and

Cambridge CB3 OES, UK

-mail: maf12@cam.ac.uk

eterinary Medicine, Madingley Road

ambridge University Department of

lakolm A. Ferguson-Smith

despite US embargo Cuba flourished Scientific links with

detected in just one, a cow in

so far, a mutation in the prion

Of the atypical BSE cases tested

Kansas 66506-5601, USA

C224B Mosier Hall, Manhattan,

Aedicine, Kansas State University,

Irgen A. Richt College of Veterinary

protein gene (PRNP) has been

group organized by Harlyn 1980s, Cuban biotechnology whenever we visited. We were received warmly in Cuba Center and an inspirational leader Brandeis University's Rosenstiel a Havana suburb. An American laivorson, then director of was confined to a small house in tepped in to help the venture. At the start, during the early something to teach us about of the pansy. Perhaps poets have reverse the neurobiological results

anti-libidinal properties) — could

neurobiology and love after all.

scientists set up symposia where and Biotechnology. The Cuban Center for Genetic Engineering was housed in the majestic across the street and from 1986 transferred to a larger house The biotechnology effort soor

states, a threat to our own dignity

of human cognition", as Crum

and our vision of how a good life

the normative correlate for ethical

at slaughter prevents infected

Routine genetic screening of

© 2009 Macmilian Publishers Limited, All rights reserved

brain and spinal cord, from cattle specified risk material, such as proteins to pigs). Removal of countries still feed ruminant the ruminant feed ban (many with rigorous enforcement of surveillance for BSE in cattle, it is important to maintain strict to be free of BSE, such as

on creatures that "provide 2009)? Second, is performing

"invasive medical experiments be possible" (Nature 457, 147; of animals in research will never Correspondence Replacement could consider a good life, as

PRNP mutations could occur in countries at present considered

Australia and New Zealand. So

related assumption.

Such rare potential pathogenic

and argued against the scrapieoriginated from such a mutation epidemic had most likely 2000 suggested that the UK report of the UK BSE Inquiry in

> small way to its development biotechnologists contributed in no

biotech has prospered". In fact, US between Cuban and US scientists

Roberto Caminiti states in his their chances of what we uture generations, by reducing studies on primates constitute a

one or more of us would speak The US government allowed us

New Jersey 08901, USA Farm Road, New Brunswick, Resources, SEBS, 14 College

to correspondence@nature.com. Contributions may be submitted

1079

別紙様式第2-1

医薬品 研究報告 調査報告書

報告日 新医薬品等の区分 報入手日 総合機構処理概 識別番号·報告回数 2009. 4. 15 該当なし 般的名称 人赤血球濃厚液 ProMED 20090108.0076, 2009 Jan 8. 情報源:UK: National CJD Surveillance Unit - monthly 公表国 研究報告の公表状況 赤血球濃厚液-LR「日赤」(日本赤十字社) 照射赤血球濃厚液-LR「日赤」(日本赤十字 statistics as of 5 Jan 2009, 2009 販売名(企業名) 英国 Jan 5. 社) 使用上の注意記載状況・

○プリオン病最新情報 英国:国立CJDサーベイランスユニット、月次vCJD・CJD統計、2009年1月5日時点 英国のCJDサーベイランスユニットから公表されたvCJDを始めとするプリオン病の患者数に関する最新情報である。2008年は、 12月31日時点で140名の照会があった。内訳は、孤発性CJDによる死亡患者:73名、医原性CJDによる死亡患者:5名、GSS:3 名、家族性CJD:2名、vCJD:1名。vCJD確定例または可能性例総数は前月から変化なく167名のままである。このデータは英国 におけるvCJD流行は減少しつつあるとする見解に一致する。死亡患者数のピークは2000年の28名であり、その後2001年に20 名、2002年に17名、2003年に18名、2004年に9名、2005年に5名、2006年に5名、2007年に5名、2008年に1名と減少している。

その他参考事項等

赤血球濃厚液-LR「日赤」 照射赤血球濃厚液-LR「日赤」

血液を介するウイルス、 細菌、原虫等の感染 vCJD等の伝播のリスク

報告企業の意見

今後の対応

英国CJDサーベイランスユニットの統計によると、2009年1月5日の時点で、vCJD死亡患者総数には前月から変化なく167名のままであり、英国におけるvCJD流行は減少しつつあるとする見解に一致するとの報告である。

日本赤十字社は、vCJDの血液を介する感染防止の目的から、献血時に過去の海外渡航歴(旅行及び居住)を確認し、欧州36ヶ国に一定期間滞在したドナーを無期限に献血延期としている。また、英国滞在歴を有するvCJD患者が国内で発生したことから、平成17年6月1日より1980~96年に1日以上の英国滞在歴のある人の献血を制限している。今後もCJD等プリオン病に関する新たな知見及び情報の収集に努い。

研究報告1の概 要



about ISID | membership | programs | publications | resources | 14th ICID | site map



Navigation

Home

Subscribe/Unsubscribe

Search Archives

Announcements

Recalls/Alerts

Calendar of Events

Maps of Outbreaks

Submit Info

FAQs

Who's Who

Awards

Citing ProMED-mail

Links

Donations

About ProMED-mail

Search Criteria | Result List | Display Report | Search Help

Archive Number 20090108.0076 Published Date 08-JAN-2009

Subject PRO/AH/EDR> Prion disease Update 2009 (01)

PRION DISEASE UPDATE 2009 (01)

A ProMED-mail post

<http://www.promedmail.org> ProMED-mail is a program of the

International Society for Infectious Diseases

<http://www.isid.org>

[With the continuing decline in the number of cases in the human population of variant Creutzfeldt-Jakob disease -- abbreviated previously as vCJD or CJD (new var.) in ProMED-mail -- it has been decided to broaden the scope of the occasional ProMED-mail updates to include other prion-related diseases. Data on vCJD cases and other forms of CJD: sporadic, iatrogenic, familial, and GSS (Gerstmann-Straussler-Scheinker disease) are included also

when they have some relevance to the incidence and etiology of vCJD. - Mod.CP

In this update:

[1] UK: National CJD Surveillance Unit - monthly statistics as of 5 Jan 2009

[2] France: Institut de Veille Sanitaire - as of 30 Dec 2008

[3] US National Prion Disease Pathology Surveillance Center - as of 30 Nov 20

[4] and [5] Prion protein function

[6] CJD Update

.......

[1] UK: National CJD Surveillance Unit - monthly statistics as of 5 Jan 2009 Date: Mon 5 Jan 2009

Source: UK National CJD Surveillance Unit, monthly statistics [edited] <http://www.cjd.ed.ac.uk/figures.htm>

The number of suspect cases of vCJD referred to the CJD surveillance unit in Edinburgh and the number of deaths of definite and probable variant Creutzfeldt-Jakob disease (abbreviated in ProMED-mail as CJD (new var.) or vCJD], the form of the disease thought to be linked to BSE (bovine spongiform encephalopathy), remain unchanged since the previous monthly report; that is, the number of definite or probable vCJD cases (dead and alive) remains 16

This situation is consistent with the view that the vCJD outbreak in the UK is in decline. The 1st cases were observed in 1995, and the peak number of deaths was 28 in the year 2000, followed by 20 in 2001, 17 in 2002, 18 in 2003, 9 in 2004, 5 in 2005, 5 in 2006, 5 in 2007, and only one so far (up to the end of 2008).

Totals for all types of CJD cases in the year 2008

As of 31 Dec 2008 in the UK, so far there have been 140 referrals, 73 deaths from sporadic CJD, 5 deaths from iatrogenic CJD, 3 from GSS, 2 from familial CJD, and one from vCJD.

Communicated by:

117

ProMED-mail cpromed@promedmail.org>

[2] France: Institut de Veille Sanitaire - as of 30 Dec 2008 Date: 30 Dec 2008 Source: IVS - Maladie de Creutzfeldt-Jakob et maladies apparentees [French, trans. & summ. Mod.CP, edited] <http://www.invs.sante.fr/display/?doc=publications/mcj/donnees_mcj.html>

During the period 1992 to 2008, there were 23 cases of vCJD, all now deceased. They occurred between 1996 and 2007: one case in 1996, one in 2000, one in 2001, 3 in 2002, none in 2003, 2 in 2004, 6 in 2005, 6 in 2006, 3 in 2007, and none so far in 2008. There were 12 male and 11 female patients.

Their ages at time of death ranged from 19 to 58 years (mean 39); 6 of the patients resided in the Ile-de-France [Paris area] and 17 in the provinces. All the cases were met-met homozygotes for codon 129 of the prion protein gene. No special risk factors were evident, which distinguished these patients from those with other forms of CJD (sporadic, genetic, iatrogenic). However, one patient had visited the UK at regular intervals.

Totals for all types of CJD cases in the year 2008 ______

As of 30 Dec 2008 in France, during the course of 2008 there have been 1438 referrals, 76 deaths from sporadic CJD, 3 deaths from iatrogenic CJD, 8 from familial CJD, none from GSS, and none from vCJD.

Communicated by: ProMED-mail cpromed@promedmail.org>

[3] US National Prion Disease Pathology Surveillance Center - as of 30 Nov 2 Date: 30 Nov 2008 Source: US National Prion Disease Pathology Surveillance Center [edited] <http://www.cjdsurveillance.com/desources-casereport.html>

Cases examined - as of 30 Nov 2008 _____

During the period 1997 to 30 Nov 2008, 2 cases of vCJD were reported, both contracted overseas. The 1st case was recorded in 2004, disease contracted in the UK, and the 2nd in 2006, disease contracted in Saudi Arabia.

Totals for all types of CJD cases in the year 2008 as of 30 Nov 2008

So far in 2008 there have been 332 referrals, 199 cases of prion disease, including 151 cases of sporadic CJD, 21 cases of familial CJD, no cases of atrogenic CJD and no indigenous cases of vCJD.

Overall during the period 1997 to 2008, there have been 3018 referrals, 1745 cases of prion disease, 1456 cases of sporadic CJD, 252 cases of familial CJD, 4 cases of iatrogenic CJD and no indigenous cases of vCJD.

[During 2008 so far the USA with approximately 2.5x the combine populations of the UK and France have reported a similar number of cases of sporadic CJD (149 versus 151). Whether this is due ot a difference in surveillance procedure or actual disease incidence is unclear at the present time. - Mod.CP]

Communicated by:

118

[4] Prion protein function
Date: Sun 21 Dec 2008
Source: BBC News online [edited]
http://news.bbc.co.uk/1/hi/health/7788444.stm

Scientists sniff out prion secret

The brain protein which has a hand, when defective, in the lethal disease CJD may also be involved in aiding our sense of smell. Mice bred to lack the prion protein could not find buried food or choose between smells. Columbia University scientists said some symptoms of prion disease might be due to the loss of the protein's original role. The study was published in the journal Nature Neuroscience [see below].

The prion protein has historically received something of a bad press, being blamed in its misshapen form for degenerative brain diseases in humans and other animals. However, many scientists have been trying to uncover what it actually does when it is behaving correctly. Dr Stuart Firestein's team believe that one of these roles is to help us smell. While his prion-protein free mice were still able to detect scents, they had lost some higher functions which required that smell information to be analysed and processed by the brain. The scientists found changes in the communication between neurons in the nerve cells of the olfactory bulb, part of the forebrain which deals with odours. When the protein was restored to this part of the brain, the ability to discriminate between odours came back.

The scientists said that while the discovery had no direct link to the diseases caused by faulty prion proteins, it might help account for some of the symptoms experienced by patients, which might be due to the failure of the proteins to do their normal job properly, rather than the damage caused by accumulation of defective prions.

This is not the 1st suggested role for the prion protein -- in 2007, Leeds University scientist Professor Nigel Hooper said that it might help reduce the formation of "plaques" linked to the onset of Alzheimer Disease. He said of the newly-reported research: "It's likely that these proteins have a number of roles in various different body systems, including the olfactory system, as suggested here. "I don't think you can say that it is so mysterious any more, or that we do not understand what it does."

[Reference: Nature Neuroscience, Published online: 21 December 2008 doi:10.1038/nn.2238 http://www.nature.com/neuro/journal/v12/n1/abs/nn.2238.html

Title: Olfactory behavior and physiology are disrupted in prion protein knockout mice Authors: Claire E Le Pichonl, Matthew T Valleyl, Magdalini Polymenidou2,3, Alexander T Cheslerl, Botir T Sagdullaevl,3, Adriano Aguzzi2 & Stuart Firesteinl

للسبب بالمناز بالمتماد كالمنافرة والمنافرة والمنافرة والمتمار والمنافرة والمنافرة والمنافرة والمرازع والأروا

Affiliations: Department of Biological Sciences, Columbia University, 1212 Amsterdam Avenue, New York, New York 10027, USA: Institute of Neuropathology, University Hospital Zurich, Schmelzbergstrasse 12, 8040 Zurich, Switzerland.

Abstract: The prion protein PrPC is infamous for its role in disease, but its normal physiological function remains unknown. Here we found a previously unknown behavioral phenotype of Prnp-/- mice in an odor-guided task. This phenotype was manifest in three Prnp knockout lines on different genetic backgrounds, which provides strong evidence that the phenotype is caused by a lack of PrPC rather than by other genetic factors. Prnp-/- mice also showed altered behavior in a 2nd olfactory task, suggesting that the phenotype is olfactory specific. Furthermore, PrPC deficiency affected oscillatory activity in the deep layers of the main olfactory bulb, as well as dendrodendritic synaptic transmission. between olfactory bulb granule and mitral cells. Notably, both the behavioral and electrophysiclogical alterations found in Prnp-/mice were rescued by transgenic neuronal-specific expression of PrPC. These data suggest that PrPC is important in the normal processing of sensory information by the olfactory system.]

[And from the same issue of Nature Neuroscience. See below - Mod.CP]

[5] Prion protein function
Date: Sun 21 Dec 2008
Source: Nature Neuroscience 12, 7 - 8 (2009) [edited]
http://www.nature.com/neuro/journal/v12/n1/full/nn0109-7.htm

Title: Sniffing out a function for prion proteins

Abstract

when prion proteins go wrong, they can do serious damage, but little is known about their normal function, despite their ubiquitous expression in the brain. A new report in this issue [see above] suggests a critical role for prions in olfactory discrimination.

Introduction

Although the word prion was coined by Stanley Prusiner to describe the "proteinaceous infectious particle" that causes a family of fatal neurodegenerative diseases known as transmissible spongiform encephalopathies more than 20 years ago, little is known about the normal function of prion proteins. Most of what is known about them comes from studies of their involvement in these devastating diseases, which include Creutzfeld-Jakob disease, bovine spongiform encephalopathy ('mad-cow disease') and chronic wasting disease in elk and deer. These diseases are distinguished by rapidly progressive neurological deterioration and a pattern of \ neurodegeneration that is characterized by prominent vacuolization of neuronal cytoplasm, which gives the brain a sponge-like histological appearance. The key pathogenic event in these diseases is the conversion of an endogenous cell-surface glycoprotein, the prion protein (PrPc), to a pathological isoform (PrPsc) that has an abnormal conformation and an unusual resistance to proteolytic degradation. PrPsc accumulates in cells and plaque-like extracellular deposits, converting more PrPc into the pathogenic form and triggering neurodegeneration by mechanisms that are still not fully understood. Conversion of PrPc can be a result of inherited mutarions, infection of the

.... when a prion-injected tissue or rare sporadic events. Although the formation of PrPsc is believed to result in a gain of toxic function, a loss of function of PrPc has not been excluded as being involved in prion disease PrPc is most abundantly expressed in the brain and it would be expected that the loss of this protein would result in substantial neurobehavioral modifications. However, the specific role of PrPc in neural function and behavior is far from clear. In fact, previous work suggests that the most robust phenotype of PrPc loss in transgenic mice is protection from prion diseases. Although changes in PrPc expression influence a variety of critical cellular processes in neurons, including cell survival, synaptic maintenance and plasticity, and axonal maintenance, data on these issues have occasionally been contradictory. Thus, 'elusive' remains one of the descriptors most commonly attached to this protein in papers and reviews on PrPc. Fortunately, a clue to the elusive prion function may lie right under, in, our noses. Le Pichon and colleagues have begun this investigation in this issue [see proceeding report].

There are several major hurdles to learning about the function of a particular protein. One of these is knowing where the protein resides in cells. This localization can help narrow down the potential functions of the protein. Earlier this year [2008], it was demonstrated, using new highly specific antibodies, that PrPc in the olfactory system is localized to the axons of both peripheral olfactory sensory receptor neurons and central neurons such as the mitral cells of the olfactory bulb. Glia or support cells in the olfactory bulb or olfactory epithelium were not detectably labeled. In addition to axons, PrPc was also observed in the dendritic spines of axonless olfactory bulb granule cells. These spines are both pre- and postsynaptic to mitral cells, forming reciprocal synapses. Combined with the axon staining, this suggests a potential role for PrPc in presynaptic function. However, given how widely expressed PrPc is throughout the brain, simply showing its presence in the olfactory system was only circumstantial; further tests were required to determine whether it has a functional role in olfaction.

The observation that PrPc is expressed in olfactory sensory neurons, mitral cells and granule cells raises the possibility that it is important for the local circuit function of the olfactory bulb. Olfactory sensory neurons in the nose send axons directly into the brain, terminating on mitral cells, which send their axons directly to olfactory cortex. In the olfactory bulb, local circuits, which include granule cells, refine spatiotemporal patterns of sensory neuron input, and this local circuit function can be monitored electrophysiologically through oscillations in local field potentials. Previous work in a variety of laboratories has demonstrated that manipulation of local circuit function in the olfactory bulb can modulate various aspects of odor perception, 7). Thus, the stage was set to ask whether loss of PrPc affects normal olfaction. Le Pichon and colleagues provide a convincing affirmative answer and with it a clue to PrPc function. Specifically, the loss of PrPc in neurons of the olfactory system of transgenic mice impairs odor-guided behaviors such as finding buried food and simple odor discrimination. The deficit, was expressed

apparent impairment in odor discrimination per se. Although PrPc is found in olfactory sensory neurons, the behavioral deficits were not associated with detectable changes in receptor function. In fact, the sense of smell could be rescued by selectively replacing PrPc in olfactory bulb neurons alone, suggesting a central brain site of action.

Given that PrPc deletion disrupted odor-guided behavior, the final question is raised of whether or not there are neural correlates of this behavioral change in the olfactory bulb. Using electrophysiological recordings, Le Pichon et al. demonstrated specific changes in local circuit function in the olfactory bulb in the PrPc knockouts: For example, using in vivo electrical stimulation to assay local circuit interneuron function, the authors found a decrease in inhibition of mitral cells by granule cell interneurons. This mitral cellgranule cell reciprocal interaction has been hypothesized to be important for everything from lateral inhibition to odor memory to state-dependent modulation of olfactory bulb function. Physiologically, activity in this local feedback circuit underlies high-frequency oscillations in olfactory bulb activity in response to odor stimulation. These olfactory bulb local field potential oscillations may facilitate temporal coding and/or binding of disparate odor features by target neurons in the olfactory cortex. Le Pichon et al. found that these odor-evoked high-frequency oscillations were abnormal in PrPc knockout mice.

---- - ------- amosume but was rather an

The results suggest that PrPc may be important in local circuit function in the olfactory system and may in turn influence odor perception. There has been some debate over whether neural damage done by prion diseases is solely caused by the buildup of PrPsc or whether the concomitant loss of PrPc may also be involved. By demonstrating a systems-level effect of PrPc loss, Le Pichon et al. suggest that both may be important.

[Byline: Donald A Wilsonl and Ralph A Nixon2 1 Donald A Wilson is at the Emotional Brain Institute, Nathan Kline Institute for Psychiatric Research, 140 Old Orangeburg Road, Orangeburg, New York 10962, USA, and the Department of Child and Adolescent Psychiatry, New York University School of Medicine, 215 Lexington Avenue, New York, New York 10016, USA. 2 Ralph A Nixon is at the Center for Dementia Research, Nathan Kline Institute for Psychiatric Research, 140 Old Orangeburg Road, Orangeburg, New York 10962, USA, and the Departments of Psychiatry and Cell Biology, New York University School of Medicine, 550 1st Ave, New York, New York 10016, USA. < dwilson@nki.rfmh.org >]

Communicated by: ProMED-mail promed@promedmail.org>

[The references cited in the text can be found by accessing the original text of tis report in Naute Neuroscinece using the URL at the beginning of the report.

[6] CJD Update Date 12 Dec 2008 Source: Health Protection Agency Report, Emerging Infections/CJD [abbreviated and edited]

122

Creutzfeldt-Jakob disease (CJD) update report

This 6-monthly report provides an update on reports of incidents of potential iatrogenic (healthcare-acquired) exposure to CJD via surgery, and on the National Anonymous Tonsil Archive. Data are correct as of 5 Dec 2008. For numbers of CJD case reports, readers should consult data provided by the national CJD Surveillance Unit (NCJDSU), Edinburgh [1], and the ProMED-mail monthly Prion Disease Updates]. The latest yearly analysis of vCJD reports (onsets and deaths) is also available from the NCJDSU Web site [2], and the ProMED-mail monthly Prion Disease Update.

Reports of incidents of potential iatrogenic exposure to CJD via surgery: 1 Jan 2000 to 30 Jun 2008

There were a total of 350 incidents reported during this period (tabulated in the original text). 12 surgical incidents were reported between 1 Jan and 30 Jun 2008. A surgical incident occurs when a patient undergoes surgery but is only identified as having CJD or being at risk of CJD at a later date. (This means that the ACDP TSE Working Group infection control guidelines would not have been followed). The surgery carried out on an index patient with, or at risk of CJD, may result in contamination of the instruments with abnormal prion protein. (A table in the original text gives the number of CJD surgical incidents reported to the CJD Incidents Panel from January 2000 to June 2008 by the diagnosis of the index patient.)

Investigation of surgical incidents may result in advice to remove surgical instruments from clinical use (to quarantine, destroy, or donate for research). Such advice is generally only given for instruments considered to be potentially contaminated with the CJD agent that have not undergone a certain number of cycles of use and decontamination since their use on an index patient. Hospitals are asked to consider sending any instruments to be permanently removed from use to the Surgical Instrument Store (held by the Health Protection Agency, Porton Down) for research. In the 2nd half of 2007, there were no incidents in which instruments were permanently removed from use

The Panel may advise contacting and informing some patients of their possible exposure to CJD in a surgical incident. Such advice is generally only given for patients who have definitely been exposed to potentially contaminated instruments which have been used on risk tissues in certain index patients. The Panel may advise that some of these patients should be considered "at-risk of CJD for public health purposes" and asked to take certain precautions (i.e., not to donate blood or other tissues and to inform their medical and dental carers prior to any invasive procedures) in order to reduce the risk of transmitting the CJD agent further. Since 2000, 20 incidents have given rise to such advice (tabulated in the original text). One of these incidents was reported in the 1st half of 2008. The Panel has so far categorised 64 patients as "at-risk"; 13 of whom died before notification. 3 patients have not been notified due to local, clinical. decisions. (One index patient undergoing a cataract operation was all Bood component

Tecthrame atom extremes or son turbontous

National anonymous tonsil archive for studies of detectable abnormal prion protein

The National Anonymous Tonsil Archive (NATA) continues to receive approximately 400 tonsil pairs per week. The archive had received a total of 67 696 tonsil pairs up to the end of October 2008 from hospitals in England and Scotland. A further 3000 tonsil pairs have been received from the Medical Research Council Prion Unit. Therefore the total number of tonsil pairs in the archive was 70 696.

Testing of homogenates of the tonsil tissue from the archive began at the end of January 2007. 2 enzyme immunoassays (EIAs) are being used for the initial screening of the homogenates for the presence of abnormal prion protein. These EIAs allow the identification of any tonsils that need to be investigated further by the more specific tests of Western blotting (WB) and immunohistochemistry (IHC) [4].

References:

- [1] The National Creutzfeldt-Jakob Disease
 Surveillance Unit, The University of Edinburgh.
 CJD statistics. CJD figures. Edinburgh: NCJDSU, 3 May 2005. Available at http://www.cjd.ed.ac.uk/figures.htm
- [2] The National Creutzfeldt-Jakob Disease Surveillance Unit, The University of Edinburgh. Incidence of variant Creutzfeldt-Jakob Disease Onsets and Deaths in the UK January 1994 - March 2005.Edinburgh: NCJDSU, 14 Apr 2005. Available at http://www.cjd.ed.ac.uk/vcjdgdec06.htm>.
- [3] HPA CJD Incidents Panel [online]. London: HPA. Available at http://www.hpa.org.uk/web/HPAweb&Page&HPAwebAutoListName/Page/1204031511121
- [4] Spongiform Encephalopathy Advisory
 Committee. Combining evidence from tissue surveys
 to estimate the prevalence of subclinical vCJD. SEAC, 2008. Available at
 http://www.seac.gov.uk/papers/paper100-2.pdf.

Communicated by:
Terry S. Singeltary Sr.
<flounder9@verizon.net>

[see also:

2008

Prion disease update 2008 (14): new vCJD wave imminent? 20081218.3980 Prion disease update 2008 (13) 20081201.3780 Prion disease update 2008 (12) 20081103.345 Prion disease update 2008 (11) 20081006.3159 vCJD, mother & son - Spain: (Leon) 20080926.3051 Prion disease update 2008 (10) 20080902.2742 Prion disease update 2008 (09) 20080805.2402 Prion disease update 2008 (08) 20080707.2058 Prion disease update 2008 (07) 20080604.1793 Prion disease update 2008 (06) 20080506.1555 vCJD - Spain: susp. 20080410:1311 Prion disease update 2008 (05) 20080408.1285 Prion disease update 2008 (04) 20080303.0878 Prion disease update 2008 (03) 20080204.0455 Prion disease update 2008 (02) 20080107.0087 Prion disease update 2008 (01): correction 20080104.0046 Prion disease update 2008 (01) 20080102,0014

Prion disease update 2007 (08) 20071205.3923
Prion disease update 2007 (07) 20071105.3602
Prion disease update 2007 (06) 20071003.3269

```
£---- 2007 (00) <u>20070901.2879</u>
    Prion disease update 2007 (04) 20070806.2560
   Prion disease update 2007 (03) 20070702.2112
   Prion disease update 2007 (02) 20070604.1812
   Prion disease update 2007 20070514.1542
   CJD (new var.) update 2007 (05) 20070403.1130
   CJD (new var.) update 2007 (04) 20070305.0780
   CJD (new var.) update 2007 (03) 20070205.0455
   CJD (new var.) update 2007 (02): South Korea, susp 20070115.0199
   CJD (new var.), blood transfusion risk 20061208.3468
   CJD, transmission risk - Canada (ON) 20061207.3457
   CJD (new var.) update 2006 (12) 20061205,3431
   CJD (new var.) update 2006 (11) 20061106.3190
   CJD (new var.) update 2006 (10) 20061002.2820
   CJD (new var.) - Netherlands: 2nd case 20060623.1741
  CJD (new var.) - UK: 3rd transfusion-related case 20060209.0432
  CJD (new var.) update 2006 (02) 20060206.0386
  CJD (new var.) update 2006 20060111.0101
  2005
  ----
  CJD (new var.) update 2005 (12) 20051209.3547
  CJD (new var.) update 2005 (11) 20051108.3270
  CJD (new var.) update 2005 (10) 20051006.2916
  CJD (new var.) update 2005 (02) 20050211.0467
  CJD (new var.) - UK: update 2005 (01) 20050111.0095
  CJD, genetic susceptibility 20041112.3064
  CJD (new var.) - UK: update 2004 (14) 20041206.3242
  CJD (new var.) - UK: update 2004 (10) 20040909.2518
 CJD (new var.) - UK: update 2004 (02) 20040202.0400
  CJD (new var.) - UK: update 2004 (01) 20040106.0064
 CJD (new var.) - France: 8th case 20041022.2864
 CJD (new var.) - France: 9th case 20041123.3138
 CJD (new var.), blood supply - UK 20040318.0758
 CJD (new var.), carrier frequency study - UK 20040521.1365
 CJD (new var.) - UK: update 2003 (13) 20031216.3072
 CJD (new var.) - UK: update 2003 (01) 20030108.0057
 CJD (new var.) - UK: update Dec 2002 20021207.5997
 CJD (new var.) - UK: update Jan 2002 20020111.3223
 CJD (new var.), incidence & trends - UK (02) 20011124.2875
 CJD (new var.), incidence & trends - UK 20011115.2816
 CJD (new var.) - UK: reassessment 20011029.2671
 CJD (new var.) - UK: update Oct 2001 20011005.2419
CJD (new var.) - UK: regional variation (02) 20010907.2145
 CJD (new var.) - UK: update Sep 2001 20010906.2134
CJD (new var.) - UK: update Aug 2001 20010808.1872
CJD (new var.) - UK: 9th Annual Report 20010628.1231
CJD (new var.) - UK: update June 2001 20010622.1188
CJD (new var.) - UK: update 3 Jan 2001 20010104.0025]
.....cp/ejp/dk
****
ProMED-mail makes every effort to verify the reports that
are posted, but the accuracy and completeness of the
information, and of any statements or opinions based
thereon, are not guaranteed. The reader assumes all risks in
using information posted or archived by ProMED-mail. ISID
and its associated service providers shall not be held
responsible for errors or omissions or held liable for any
damages incurred as a result of use or reliance upon posted
or archived material.
***********
Become a ProMED-mail Premium
                                      Subscriber at
```

Edit o Grandi 💮 😅 Barkoviko ulkuni.

about ISID | membership | programs | publications | resources

©2001,2009 International Society for Infectious Diseases
All Rights Reserved.
Read our <u>privacy guidelines</u>.
Use of this web site and related services is governed by the <u>Terms of Service</u>.

125

<http://www.isid.org/ProMEDMail Premium.shtml>